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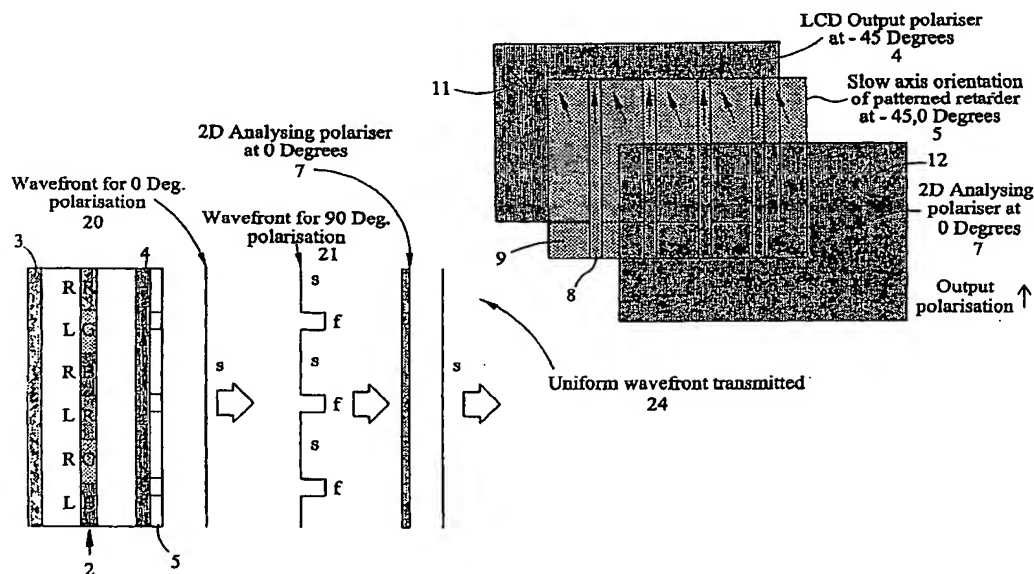
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(54) Title: **OPTICAL DEVICE AND DISPLAY OPERATING IN TWO DIMENSIONAL AND AUTOSTEREOSCOPIC THREE DIMENSIONAL MODES**



(57) Abstract: An optical device comprises an input polariser 4, a patterned retarder 5 and an output polariser 12. The retarder 5 has regions 8 and 9, at least one of which alters the polarisation of light from the input polariser 4. The output polariser 7 has a transmission axis 12 such that light passing through the regions 8 and 9 of the retarder 5 and through the output polariser 7 is matched in amplitude, phase and polarisation. Such a device may be used as a switchable parallax barrier with an LCD 2 to provide a display which is switchable between an autostereoscopic 3D mode and a 2D mode with the 2D mode having more uniform intensity across the display.

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WO 2004/003630 A1

WC 2004/003630 A1



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